Name:

**Which Graph Is It?**

Without actually making one (plotting the points, etc.), pick the graph that best fits each of the tables show below. Some graphs might fit more than one table.

***After you pick the graph***, do the following:

* Copy the graph and label the axes (what goes on the x and the y).
* Use specific evidence from the table to explain why you think your graph choice best fits the table.
* Explain why no other graphs better represent the table. You need to be able to make a convincing case!



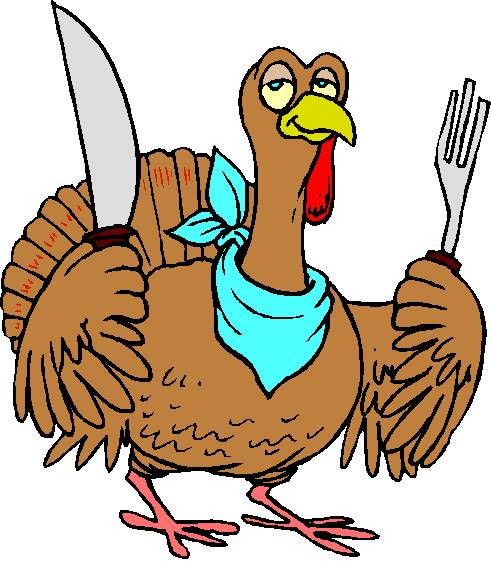
1. This table shows the temperature of a cup of coffee over time.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Time (minutes) | 0 | 5 | 10 | 15 | 20 | 25 | 30 |
| Temperature (Celsius) | 90 | 79 | 70 | 62 | 55 | 49 | 44 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

2. Maybe you can use this table during Thanksgiving! Below, you’ll see how long you might have to cook a turkey.

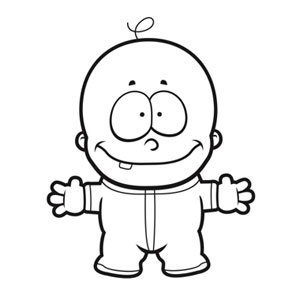


|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Weight (pounds) | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Time (hours) | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

3. This table shows how much a baby might grow before birth.



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age (months) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Length (centimeters) | 4 | 9 | 16 | 24 | 30 | 34 | 38 | 42 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

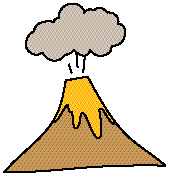
4. This table can show the amount of alcohol in your blood after 3 bottles of beer. (Wait until you’re 21, please!)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Time (hours) | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Alcohol in the blood (mg/100 ml) | 90 | 75 | 60 | 45 | 30 | 15 | 0 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

5. This table shows the number of bird species from 1880-1940 on an island with an active volcano.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 |
| # of species | 0 | 1 | 5 | 17 | 30 | 30 | 30 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

6. This table shows the average life expectancy of people in a certain country.

|  |  |  |  |
| --- | --- | --- | --- |
| Age (years) | # of people living to that age | Age (years) | # of people living to that age |
| 0 | 1000 | 50 | 913 |
| 5 | 979 | 60 | 808 |
| 10 | 978 | 70 | 579 |
| 20 | 972 | 80 | 248 |
| 30 | 963 | 90 | 32 |
| 40 | 950 | 100 | 1 |

**Which graph matches the table? \_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Graph – Label Axes!** | **Explanation** |
|  | Why did you choose this graph?  What other graphs were close? Why did these ultimately *not* work? |

